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August Test Slated to Find Way To Divert or Dilute Hurricanes

lation on the rim of a hurrl cane eye.:

This seeding experiment is designed to treat the clouds with chemical compounds to convert supercooled liquid water into ice.

The cloud accumulation to be seeded, which is called a convective cell, was found to have been the flue or stove pipe through which the energy that drove Donna was released.

The cell was located along he right front quadrant of a second circle of clouds surrounding. the hurricane center. It was, relatively small, measuring some 15 miles wide and 30 to 40 miles long.

Sometime this summer, when a hurricane is located, the flying researchers will attempt to learn whether cloud-seeding techniques can change the pattern of energy release through this perticular cell.

If seeding proves effective, two possibilities will be open! to metcorologists determined to modify severe storms:

1. Changing the forces that

govern the maximum winds hurricane's damaging winds.

persons, may have provided scientists with a clue that will enable them to divert or dilute future hurricanes.

Late next month a flotilia of or more storm centers, which Weather Bureau research air might then "fight" one an other the Weather Bureau research air might then "fight" one an exercise for the Weather Bureau research air might then "fight" one an exercise for the Weather Bureau research air relatively small cloud accumulation on the rim of a hurrilation of the rim of the

Hurricane Doma, which last the hurricane eye This Weather Burcau projection's East Coast, killing 164 divert a hurricane from the National Hurtion's East Coast, killing 164 divert a hurricane from the particular complete, controlled effort to each them to divert a hurricane from the properties of the most nearly natural path.

tions that the present effort is not an attempt to deflect hurrichnes, but will be useful! t in providing more information; on the effects of seeding on hurricanes."

The cloud-seeding techiniques to be tested involve silver iodide dispersal. As now scheduled, when a hurricane is spotted, four Weather Buresu research planes, will sweep the hurricane and sin gle out the key cell. When the cell is located, a monitor iplane surveying the storm by airborne radar will contact; high-flying jet aircraft.

The jets will circle the hurricane and drop newly developed kilver iodide canisters! As these pods fall through the cell, they burn and generate smoke containing trillions of submicroscopic silver lodide particles.

Simultaneously, the four Weather Bureau planes will employ: conventional silver lodide burners to disperse the

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Tests Slated On Taming

particles below the cell, where the chemical particles will be swept upward.

The seeding project is being supported by the National Sc. ence Foundation, which is a. multaneously supporting New York University study c the theory of hurricane mod fication. The hurricane-seeding project will complement the academic work, and what i learned from one project wi. help the other

Hubricanes derive the. power from a release of hez or energy either by converting water vapor to liquid water of water to ice. Previous hus ticane studies have shown that the amount of energy bein, released can be altered. So: entists, however, still do no know whether they can gaus enough energy to be released to make a difference in a storm's intensity. This is one of the questions to be resolve. in the forthcoming sewling experiment.

Seek to Alter Forces

The flying weatnerman wil try to determine whether by converting water to ice the; .can release enough heat o fusion into the free atmos phere to alter the natura forces operating in the storm. Rand thereby alter its intensit or its movement.

The lowering of pressure toward the center of a storm which as responsible for the hurricane's winds, has been found to be controlled by the amount of heat concentrated at elevations above the freez ing level, some 16 000 feet in bucricanes.

When water so idifies into ice by cooling latent heat of fusion is released. This type of hear would be potentially useful in altering the forces in the storms lower takers that central the fatension of the winds